

JC17 Rec'd PC1770 17 JUN 2005

AMENDMENTS TO THE CLAIMS

Please replace the claims, including all prior versions, with the listing of claims below.

LISTING OF CLAIMS:

1. (Original) Method for suppression (10) of echo (z(t)) in uplink data (y(t) 1216) coming from a terminal (2,3),  
with the original or a copy of the downlink data (12-16) and uplink data (19-21) being analyzed to prepare for echo suppression (10),  
and with uplink data (19-21) in compressed state being modified for echo reduction (10) using the results of the analysis (9) of the downlink data (12-16) and of the uplink data (19-21).
2. (Original) Method in accordance with claim 1, characterized in that the non-transcoded state represents the compressed encoding in which the uplink data was transmitted compressed over a mobile radio network.
3. (Currently amended) Method in accordance with ~~one of the previous claims~~ claim 1, characterized in that, before the analysis (9), the downlink data (12-16) and the uplink data (19-21) is decoded (18) partly or entirely from the transcoded state into a format representing the timing sequence of the signals representing the data (e.g. TDM).
4. (Currently amended) Method in accordance with ~~one of the previous claims~~ claim 1, characterized in that a copy is made (17a, 17b) of at least downlink data (12-16) to be sent in the direction of the terminal or the original of the downlink data is sent to the terminal, while the other downlink-data (original or copy) is used for encoding (18) and analysis (9) to make possible echo reduction (10) in the uplink data, with only either copy or original of the downlink data being decoded.

5. Method in accordance with Claim 4, characterized in that the downlink data and the uplink data will be copied before the analysis.
6. Method in accordance with ~~one of the previous claims~~ claim 1, characterized in that, during echo suppression (10) general knowledge of relationships between downlink data and required changes in uplink data is also taken into consideration for echo reduction on the uplink data using the results of the analysis (9) of the downlink data.
7. Method in accordance with ~~one of the previous claims~~ claim 1, characterized in that the terminal (2, 3) is a mobile radio terminal.
8. Method in accordance with claim 7, characterized in that the terminal is a mobile radio terminal for a cellular mobile radio network.
9. Method in accordance with ~~one of the previous claims~~ claim 1, characterized in that the propagation delay caused by the partial decoding of the uplink stream is less than it would be with a complete decoding of the uplink stream, subsequent echo suppression and subsequent re-encoding.
10. Device (11) for echo reduction, especially for executing the method in accordance with ~~one of the previous claims~~ claim 1,
  - with a decoding device (18) for transcoding of downlink data to be sent to a terminal or sent to a terminal and of uplink data coming from a terminal into a format representing the timing sequence of the signals representing the data (e.g. TDM),
  - with an analysis device (9) for analysis of the transcoding (18) data for an echo reduction of uplink data
  - with an echo reduction device (10) to reduce the echo in uplink data in the non-transcoded state coming from a terminal.